Brazil

Projeto Um Computador por Aluno – UCA

One Computer per Student Project - UCA
Brazil
Society. Basic Education

- **Brazil.** Organization political-administrative:
  - **Union**
  - 27 States
  - 5,564 Municipalities
  - Population: 187 millions
- **Teaching systems:** public and particular
- 55,9 millions of the students in the basic education
- 44,8% of the students enrolled in municipal schools
- 41,7% enrolled in the state networks
- Total of 203.9 thousand schools in the country
- 82,6% are public schools
Brazil

UCA Project

• Coordinated by Office Staff the Presidency of the Republic operationalized by the Ministry of Education

• UCA Project fits into the Development Plan for Education and incorporates the National Program for Educational Technology

• ProInfo is a project (10 years) that installs computers labs in schools, promote teachers managers, technicians and monitors students training, that will providing universal access for all public schools by 2010

• The initiative of the government to provide educational laptop and Internet access integrated with other projects, that use technology in public schools
Brazil
UCA Project : Development

• 2005
  – Assimilation of the concept in Brazil:
    • Concept 1:1, low-cost connected laptop, tools for learning
  – Task forces (various ministries)
    • Analysis of alternatives.
    • Resolutions technical and political
    • Digital Inclusion. Quality in education
    • Policy guided by enduring values of society
  – Educational requirements and functional
    • Academic and scientific community subsidies
Brazil

UCA Project : Development

• 2006
  – Own solutions - recruitment of research centers :
    • Fundação Centro de Referência em Tecnologias Inovadoras – CERTI (Foundation Center for Innovative Technology in Reference)
      – Chain production, management and innovation (R & D) and software

    • Laboratório de Sistemas Integráveis Tecnológicos – LSI / USP (Integrable Systems Technology Laboratory - LSI / University of Sao Paulo – USP)
      – Integrated circuits, hardware, wireless technology, software

    • Centro de Pesquisa Renato Archer – CenPRA (Research Center Renato Archer)
      – Display, hardware, ergonomic

    • Rede Nacional de Pesquisas – RNP (National Network of Research)
      – Evaluation of the concept mesh network and existing resources for the formation of networks from the school
Brazil
UCA Project: Development

• 2007
  – Phase I – experiments with laptops: donated by manufacturers
    • Five schools in the cities of UCA: Sao Paulo, Porto Alegre, Palmas, Piraí-RJ and Brasilia
  • GT-UCA (Educational Working Group of UCA):
    – Preferential monthly meetings in the five schools with experiments
    – The main documents: "Project Basis"; "UCA Pedagogicals Principles"; "Formation Brazil: Pilot"

  – Phase II - Pilot
    • Mobilization and adhesion of public systems of education
    • Selection from 300 public schools and 5 municipalities total UCA
UCA Project – Phase I - Experiments

CLASSMATE, INTEL
- Palmas-TO
  Colégio Estadual Dom Alano Marie Du Noday
  Equip.: ClassMate/PC Intel
  Quantity: 400
  Feature: share in shift different of laptops

- Pirai-RJ
  CIEP n°477 Profª Rosa Conceição Guedes
  Equip.: ClassMate/PC Intel
  Quantity: 400
  Feature: concept 1:1

MOBILIS, ENCORE
Brasilia-DF
  Centro de Ensino Fundamental n° 1 do Planalto
  Equip.: Mobilis, Encore
  Quantity: 40
  Feature: share in 3 different shifts

XO, OLPC
São Paulo
  Escola Municipal Ens. Fund. Ernani Silva Bruno
  Equip.: XO, OLPC
  Quantity: 300 B1-B2  65 B4
  Feature: share in 3 different shifts

Porto Alegre
  Escola Estadual Luciana de Abreu
  Equip.: XO, OLPC
  Quantity: 330 B1-B2  65 B4
  Feature: concept 1:1
UCA Project: phase I - Experiments

CLASSMATE INTEL
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General information on the Pilot

- 27 States – 10 schools per State:
  - 5 State schools
  - 5 Municipals schools
  - urbans and rural
  - 5 Total UCA municipals

- Laptops 150,000
- 500 by school – for all teachers and students
- 1 Mbps broadband (at least)
- 2 servers

- Federal Government equipment, internet access, training and assessment

- Governments state and municipality Partnerships, the school infrastructure (electrical and logic) - educational project for use in school
Brazil

UCA Project: Development

• 2008
  – Documentation of the experiments (financing Inter-American Development Bank - BID)

  – Team dedicated to Project UCA in MEC
    • Coordinate, supervise, develop, monitor and support the deployment and implementation of the Pilot

  – GT-UCA: advice on scientific UCA
    • Advice pedagogical, collaboration in the definition of guidelines and support the deployment, implementation, monitoring and assessment of the Project
Brazil

UCA Project: Development

• 2008
  – Structuring of actions:
    • Infrastructure: physics, logic and communication
    • Training teachers
      – Training of the entire educational network involved with the UCA: researchers from universities; teachers and administrators of schools; students who act as monitors; technical staff
  
  • Evaluation of the Pilot
    – Assessment of schools of UCA Pilot on the use of educational laptops - impacts, innovative situations and the results they generate

• Research
  – Identification and analysis of innovative teaching practices with the educational laptop connected
  – Construction of reference of the curriculum change required to education

  – Edict of purchase of laptops (new – Bid/Tender law in Brazil)
Thank you

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